FIG.1

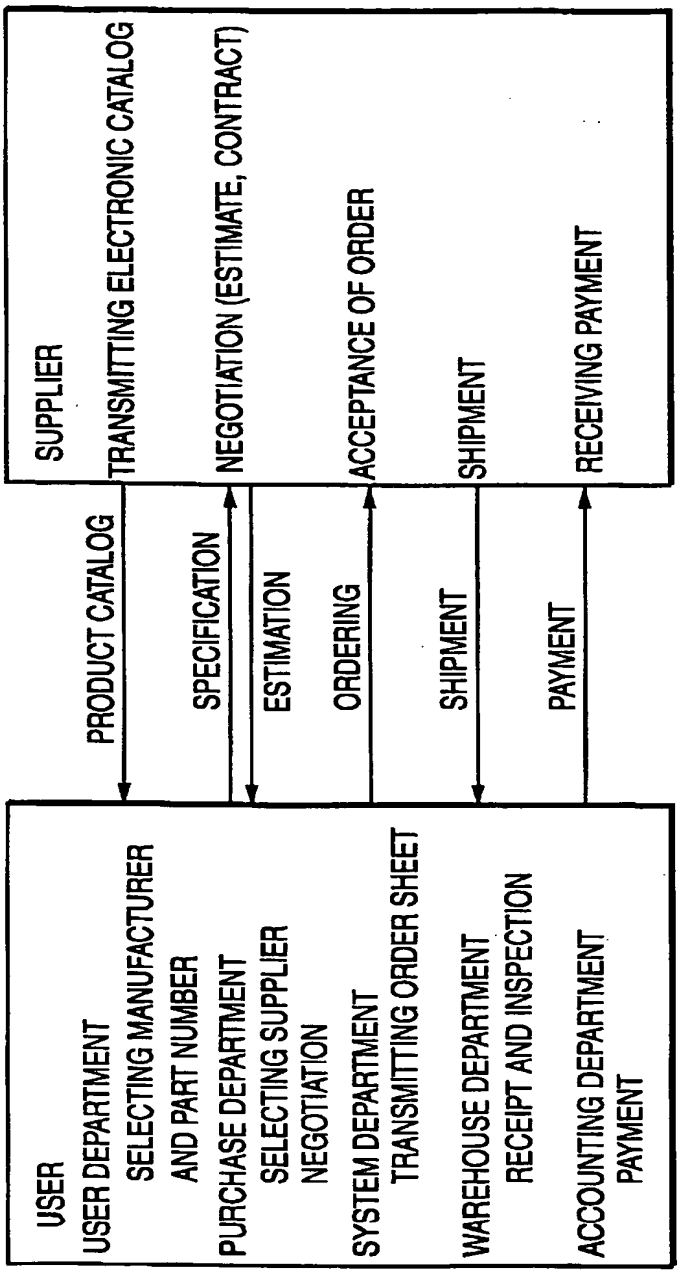

CONVENTIONAL e-COMMERCE (PRIOR ART)
USER
USER DEPARTMENT
SELECTING MANUFACTURER AND PART NUMBER
PURCHASE DEPARTMENT
SELECTING SUPPLIER
NEGOTIATION
SYSTEM DEPARTMENT
TRANSMITTING ORDER SHEET
WAREHOUSE DEPARTMENT
RECEIPT AND INSPECTION
ACCOUNTING DEPARTMENT
PAYMENT
PRODUCT CATALOG
SPECIFICATION
ESTIMATION
ORDERING
SHIPMENT
PAYMENT
SUPPLIER
TRANSMITTING ELECTRONIC CATALOG
NEGOTIATION (ESTIMATE, CONTRACT)
ACCEPTANCE OF ORDER
SHIPMENT
RECEIVING PAYMENT

FIG.2

INTERNET BUSINESS (PRIOR ART)

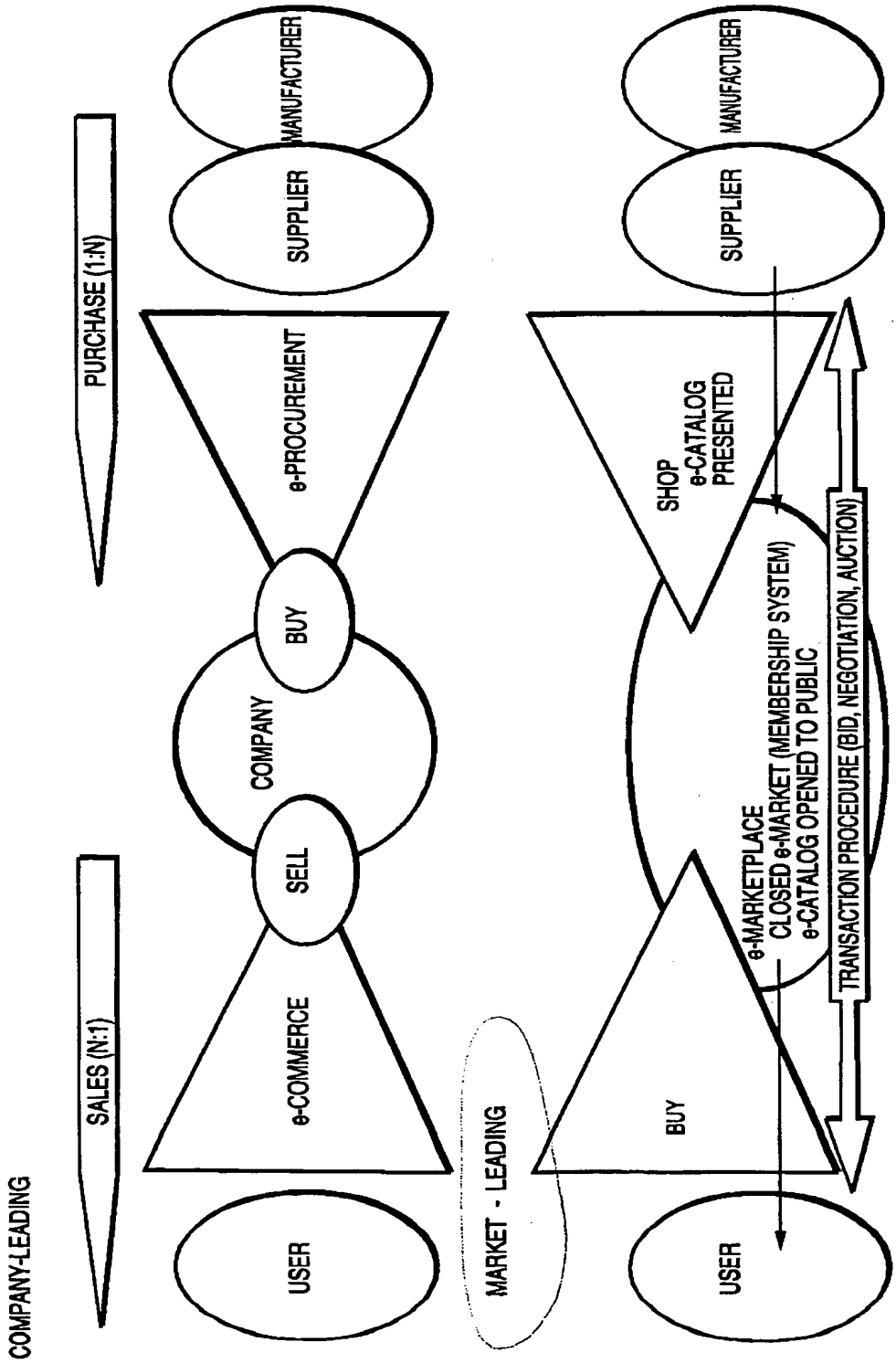


FIG. 3

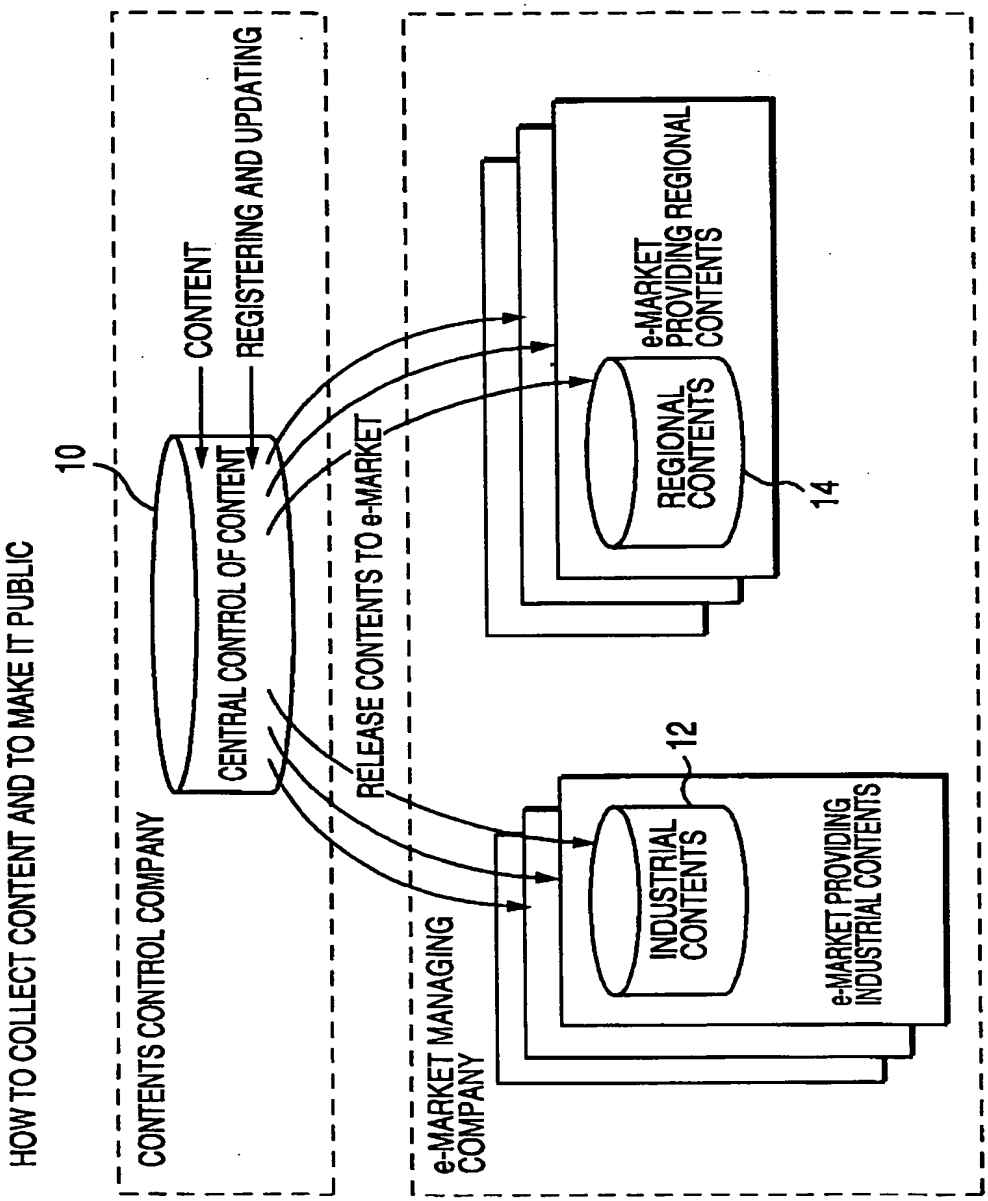

HOW TO COLLECT CONTENT AND TO MAKE IT PUBLIC
CONTENTS CONTROL COMPANY
10
CONTENT
REGISTERING AND UPDATING
CENTRAL CONTROL OF CONTENT
RELEASE CONTENTS TO e-MARKET
e-MARKET MANAGING COMPANY
e-MARKET PROVIDING REGIONAL CONTENTS
REGIONAL CONTENTS
14
12
INDUSTRIAL CONTENTS
e-MARKET PROVIDING INDUSTRIAL CONTENTS

FIG. 4

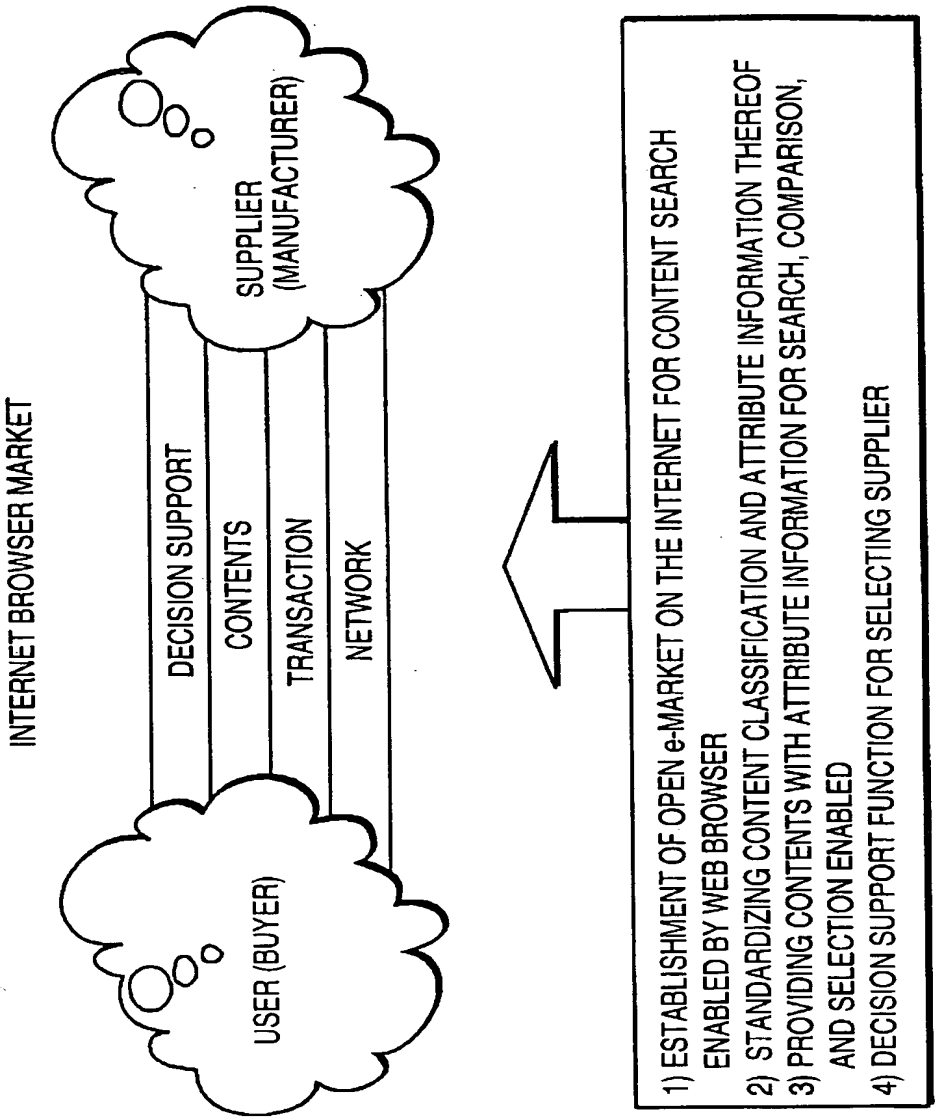

INTERNET BROWSER MARKET
SUPPLIER (MANUFACTURER)
DECISION SUPPORT
CONTENTS
TRANSACTION
NETWORK
USER (BUYER)
1) ESTABLISHMENT OF OPEN e-MARKET ON THE INTERNET FOR CONTENT SEARCH ENABLED BY WEB BROWSER
2) STANDARDIZING CONTENT CLASSIFICATION AND ATTRIBUTE INFORMATION THEREOF
3) PROVIDING CONTENTS WITH ATTRIBUTE INFORMATION FOR SEARCH, COMPARISON, AND SELECTION ENABLED
4) DECISION SUPPORT FUNCTION FOR SELECTING SUPPLIER

FIG. 5

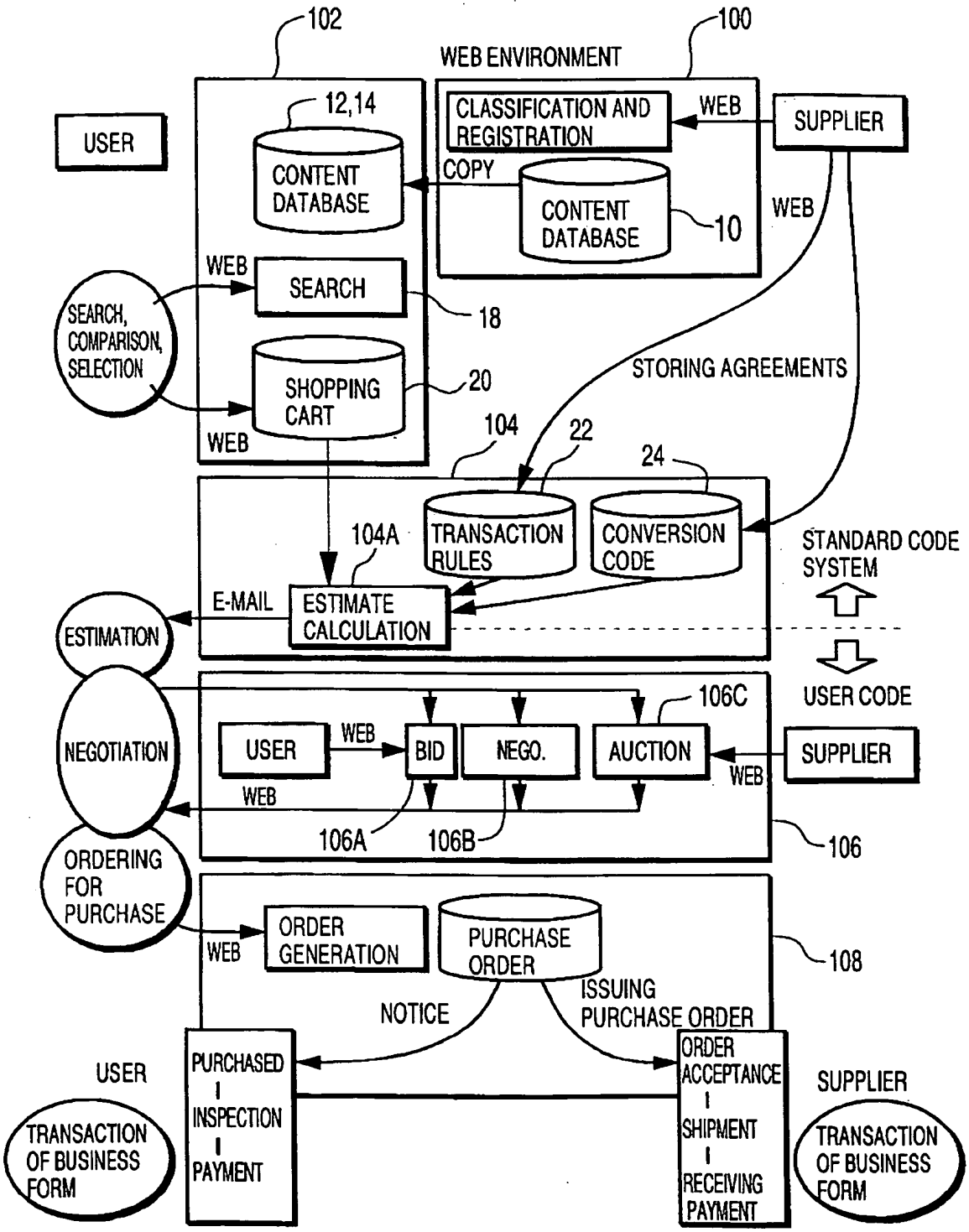

102
100
WEB ENVIRONMENT
12,14
CLASSIFICATION AND REGISTRATION
WEB
SUPPLIER
USER
CONTENT DATABASE
COPY
CONTENT DATABASE
10
WEB
WEB
SEARCH
18
SEARCH, COMPARISON, SELECTION
SHOPPING CART
20
STORING AGREEMENTS
WEB
104
22
24
104A
TRANSACTION RULES
CONVERSION CODE
STANDARD CODE SYSTEM
E-MAIL
ESTIMATE CALCULATION
ESTIMATION
USER CODE
106C
NEGOTIATION
USER
WEB
BID
NEGO.
AUCTION
SUPPLIER
WEB
WEB
106A
106B
106
ORDERING FOR PURCHASE
WEB
ORDER GENERATION
PURCHASE ORDER
108
NOTICE
ISSUING PURCHASE ORDER
USER
PURCHASED
INSPECTION
PAYMENT
ORDER ACCEPTANCE
SHIPMENT
RECEIVING PAYMENT
SUPPLIER
TRANSACTION OF BUSINESS FORM
TRANSACTION OF BUSINESS FORM

FIG. 6

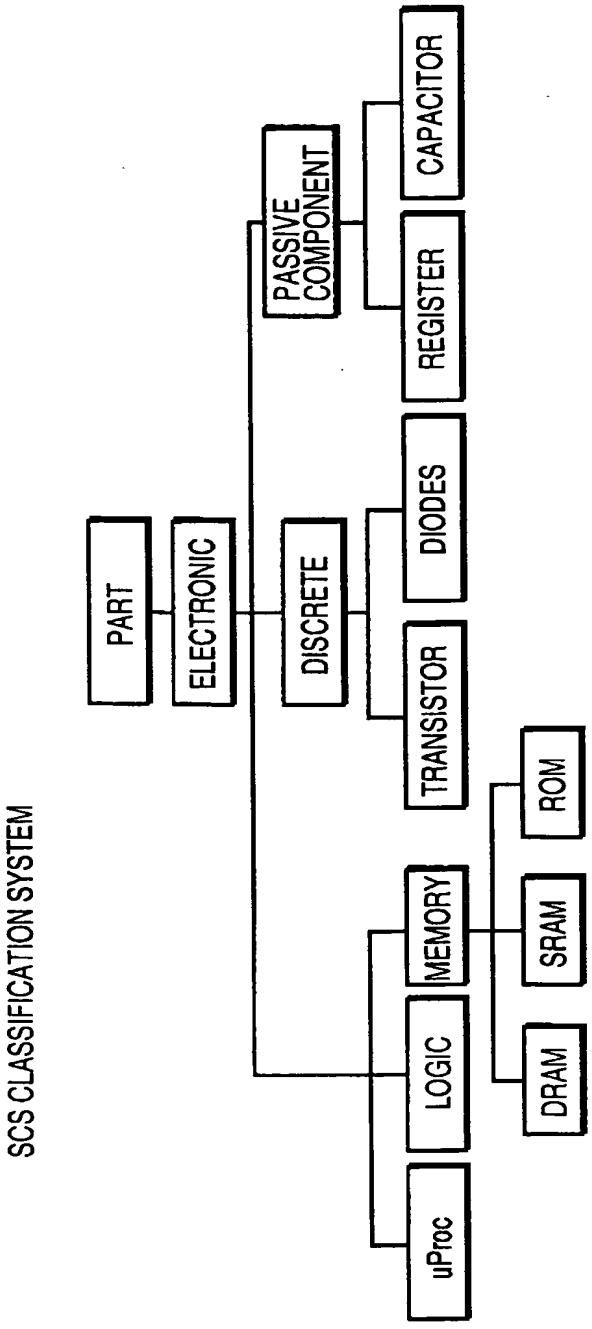

SCS CLASSIFICATION SYSTEM
PART
ELECTRONIC
DISCRETE
PASSIVE COMPONENT
CAPACITOR
REGISTER
DIODES
TRANSISTOR
MEMORY
ROM
SRAM
DRAM
LOGIC
uProc

FIG. 7A

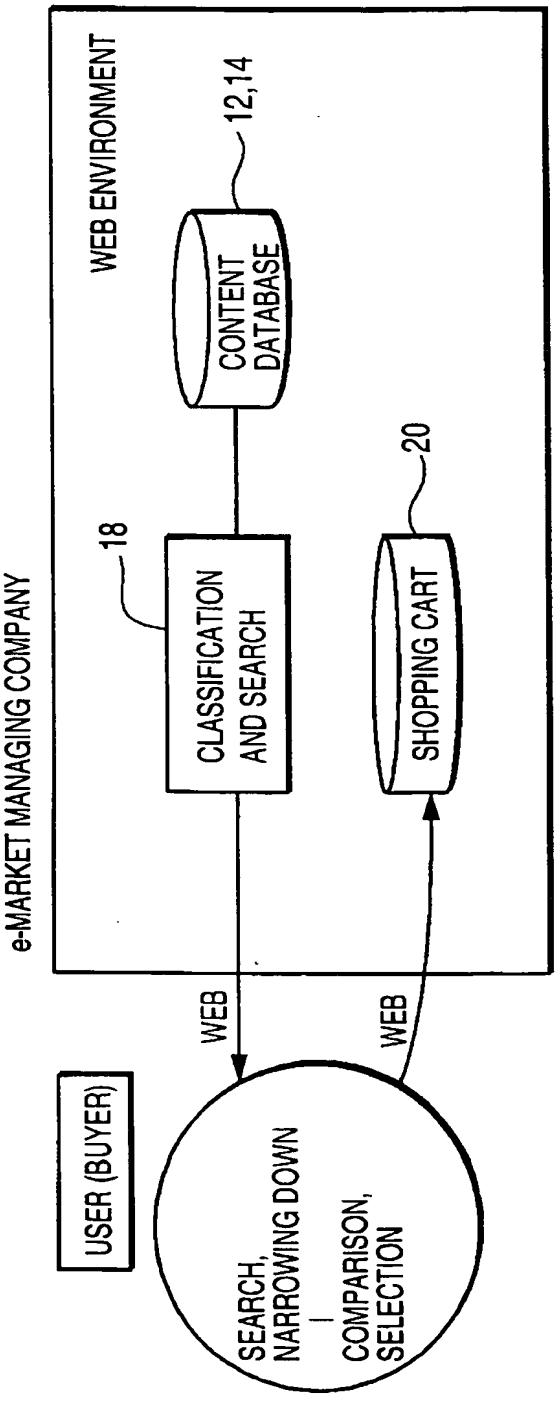

WEB ENVIRONMENT
12,14
CONTENT DATABASE
20
18
CLASSIFICATION AND SEARCH
SHOPPING CART
e-MARKET MANAGING COMPANY
WEB
WEB
USER (BUYER)
SEARCH, NARROWING DOWN
COMPARISON, SELECTION

FIG. 7B

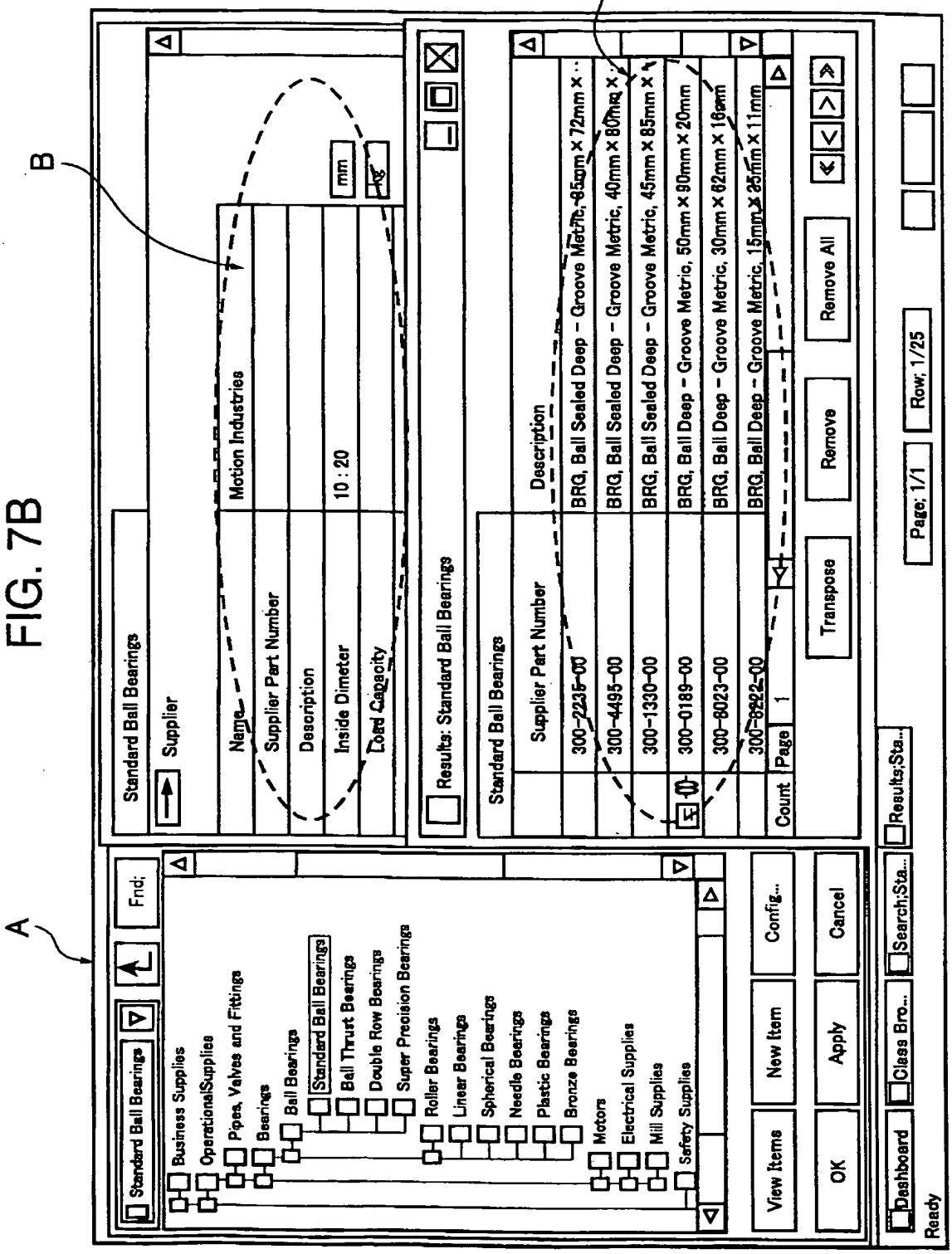

A
B
C
Standard Ball Bearings
Supplier
Name
Motion Industries
Supplier Part Number
Description
Inside Dimeter
10 : 20
Load Capacity
mm
Results: Standard Ball Bearings
Standard Ball Bearings
Supplier Part Number
Description
300-2236-00
BRG, Ball Sealed Deep - Groove Metric, 85mm x 72mm x
300-4495-00
BRG, Ball Sealed Deep - Groove Metric, 40mm x 80mm x
300-1330-00
BRG, Ball Sealed Deep - Groove Metric, 45mm x 85mm x
300-0189-00
BRG, Ball Deep - Groove Metric, 50mm x 90mm x 20mm
300-8023-00
BRG, Ball Deep - Groove Metric, 30mm x 82mm x 16mm
300-8922-00
BRG, Ball Deep - Groove Metric, 15mm x 35mm x 11mm
Count
Page
1
Transpose
Remove
Remove All
Page: 1/1
Row: 1/25
Standard Ball Bearings
Find:
Business Supplies
OperationalSupplies
Pipes, Valves and Fittings
Bearings
Ball Bearings
Standard Ball Bearings
Ball Thrust Bearings
Double Row Bearings
Super Precision Bearings
Roller Bearings
Linear Bearings
Spherical Bearings
Needle Bearings
Plastic Bearings
Bronze Bearings
Motors
Electrical Supplies
Mill Supplies
Safety Supplies
View Items
New Item
Config...
OK
Apply
Cancel
Dashboard
Class Bro...
Search;Sta...
Results;Sta...
Ready

FIG. 8

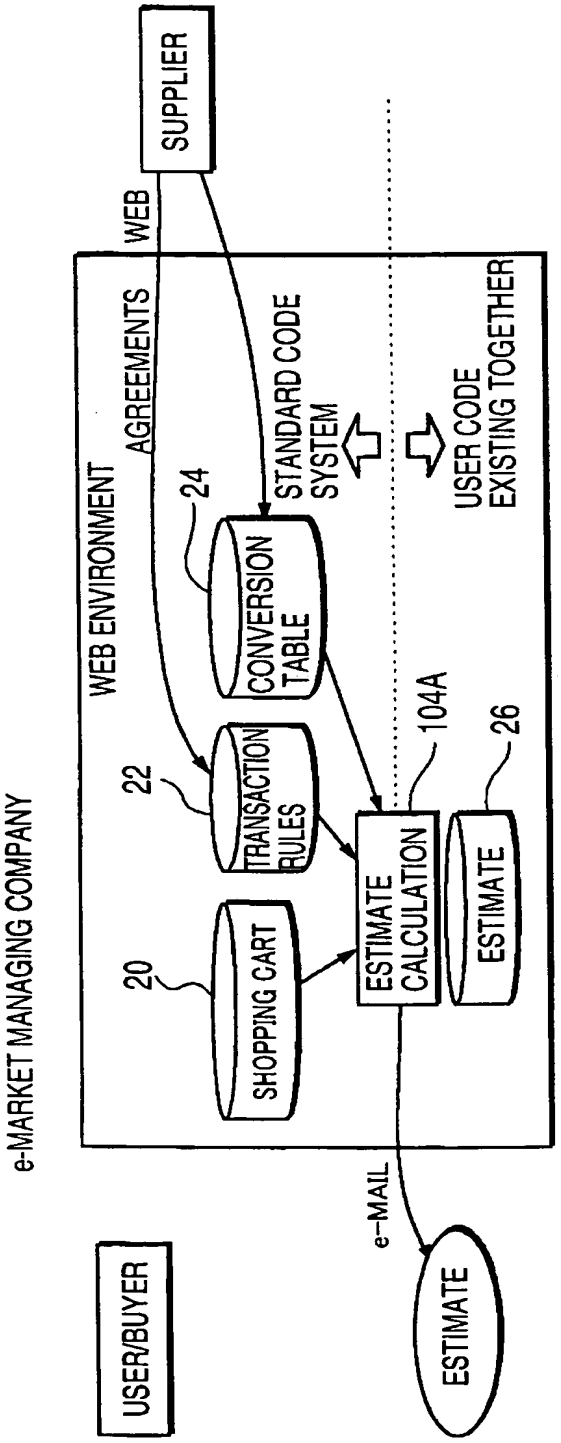

SUPPLIER
WEB
WEB ENVIRONMENT
AGREEMENTS
STANDARD CODE SYSTEM
USER CODE EXISTING TOGETHER
24
CONVERSION TABLE
22
TRANSACTION RULES
20
SHOPPING CART
ESTIMATE CALCULATION
104A
26
ESTIMATE
e-MARKET MANAGING COMPANY
e-MAIL
USER/BUYER
ESTIMATE

FIG. 9

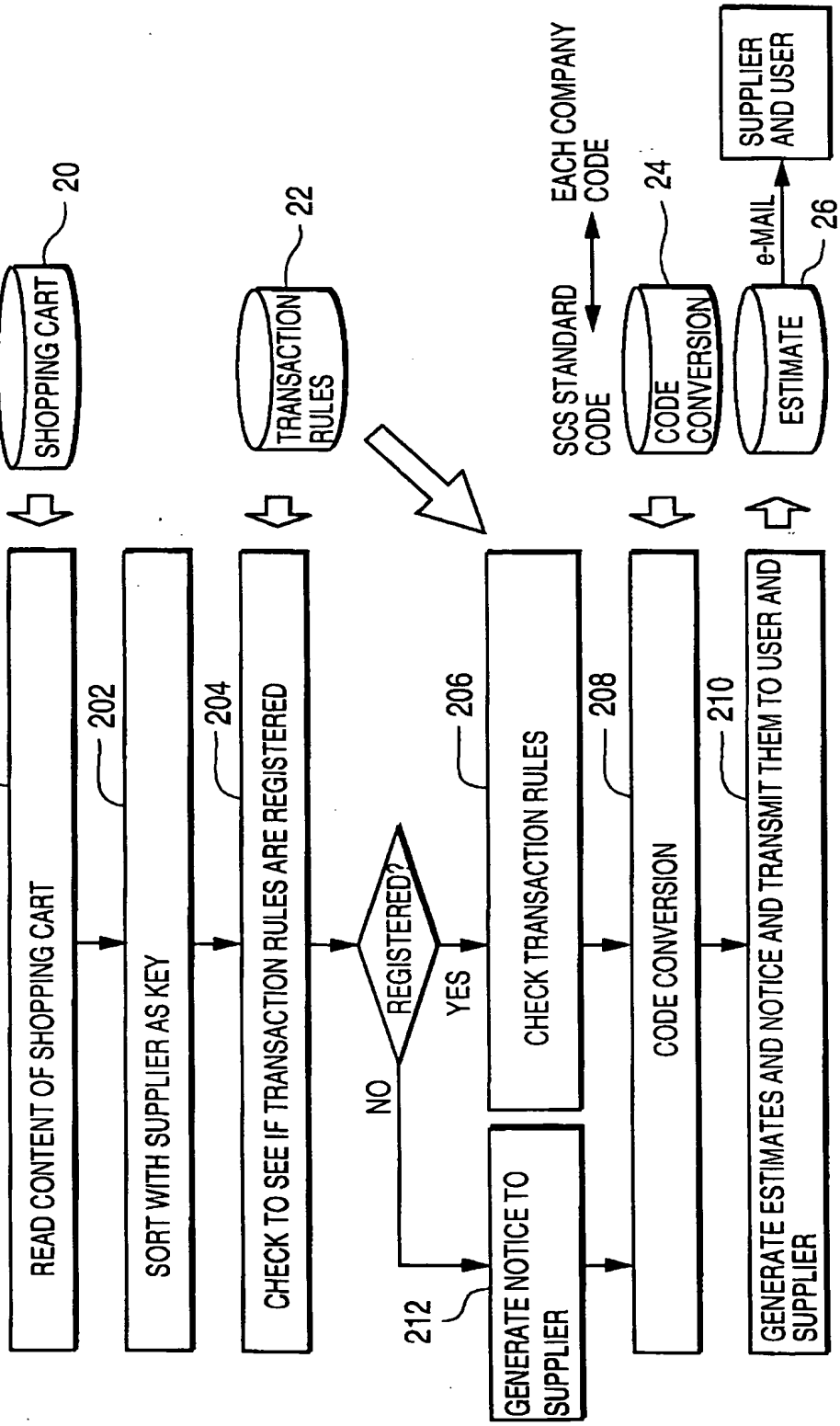

ESTIMATE CALCULATION FLOW
READ CONTENT OF SHOPPING CART
SORT WITH SUPPLIER AS KEY
CHECK TO SEE IF TRANSACTION RULES ARE REGISTERED
REGISTERED?
YES
NO
CHECK TRANSACTION RULES
GENERATE NOTICE TO SUPPLIER
CODE CONVERSION
GENERATE ESTIMATES AND NOTICE AND TRANSMIT THEM TO USER AND SUPPLIER
200
202
204
206
208
210
212
SHOPPING CART
20
TRANSACTION RULES
22
SCS STANDARD CODE
EACH COMPANY CODE
CODE CONVERSION
24
e-MAIL
ESTIMATE
26
SUPPLIER AND USER

FIG. 10

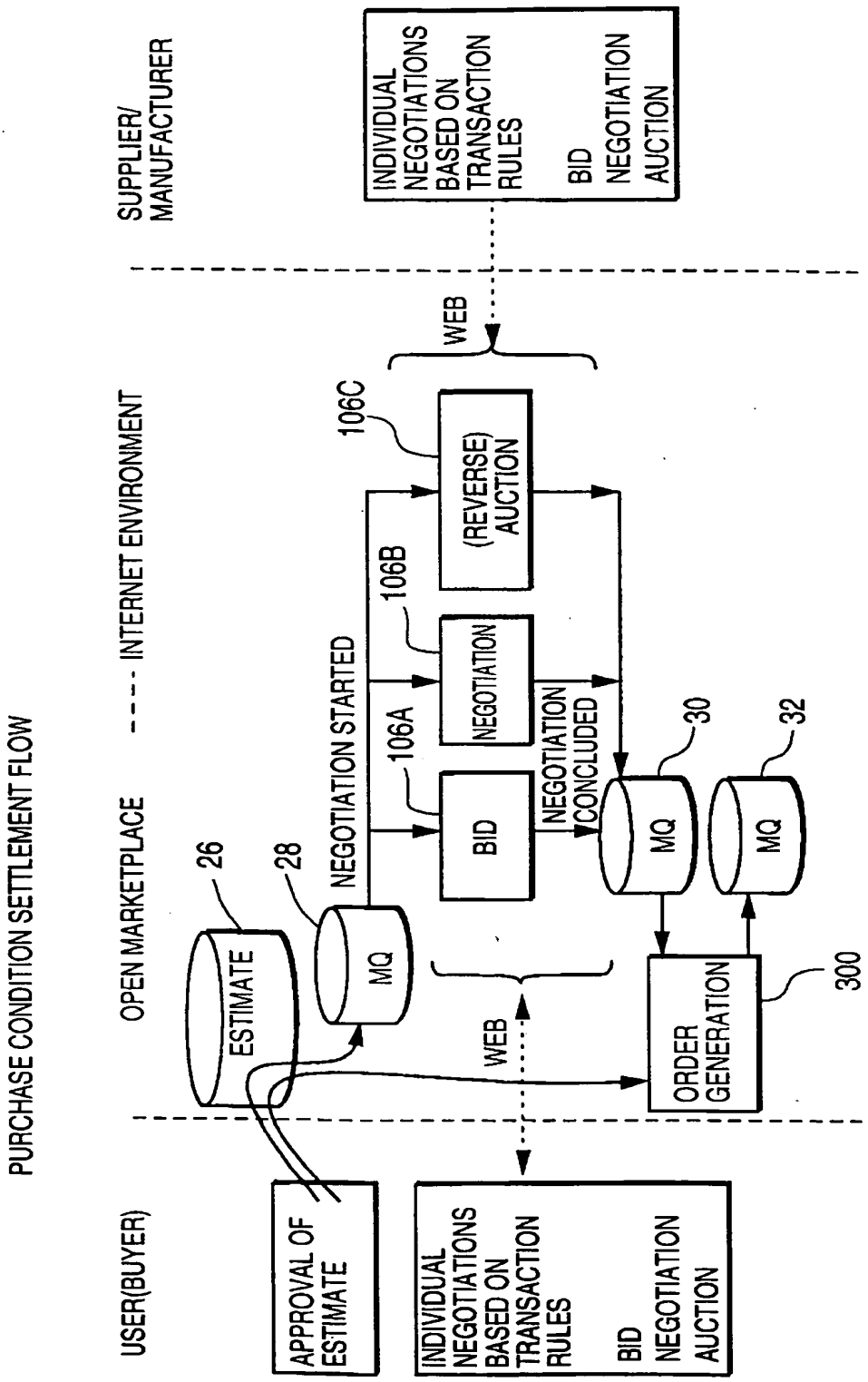

PURCHASE CONDITION SETTLEMENT FLOW
OPEN MARKETPLACE
---- INTERNET ENVIRONMENT
USER(BUYER)
SUPPLIER/ MANUFACTURER
APPROVAL OF ESTIMATE
INDIVIDUAL NEGOTIATIONS BASED ON TRANSACTION RULES
BID
NEGOTIATION
AUCTION
ESTIMATE
26
MQ
28
NEGOTIATION STARTED
106A
BID
NEGOTIATION
106B
(REVERSE) AUCTION
106C
NEGOTIATION CONCLUDED
MQ
30
MQ
32
ORDER GENERATION
300
WEB
WEB
INDIVIDUAL NEGOTIATIONS BASED ON TRANSACTION RULES
BID
NEGOTIATION
AUCTION

FIG. 11

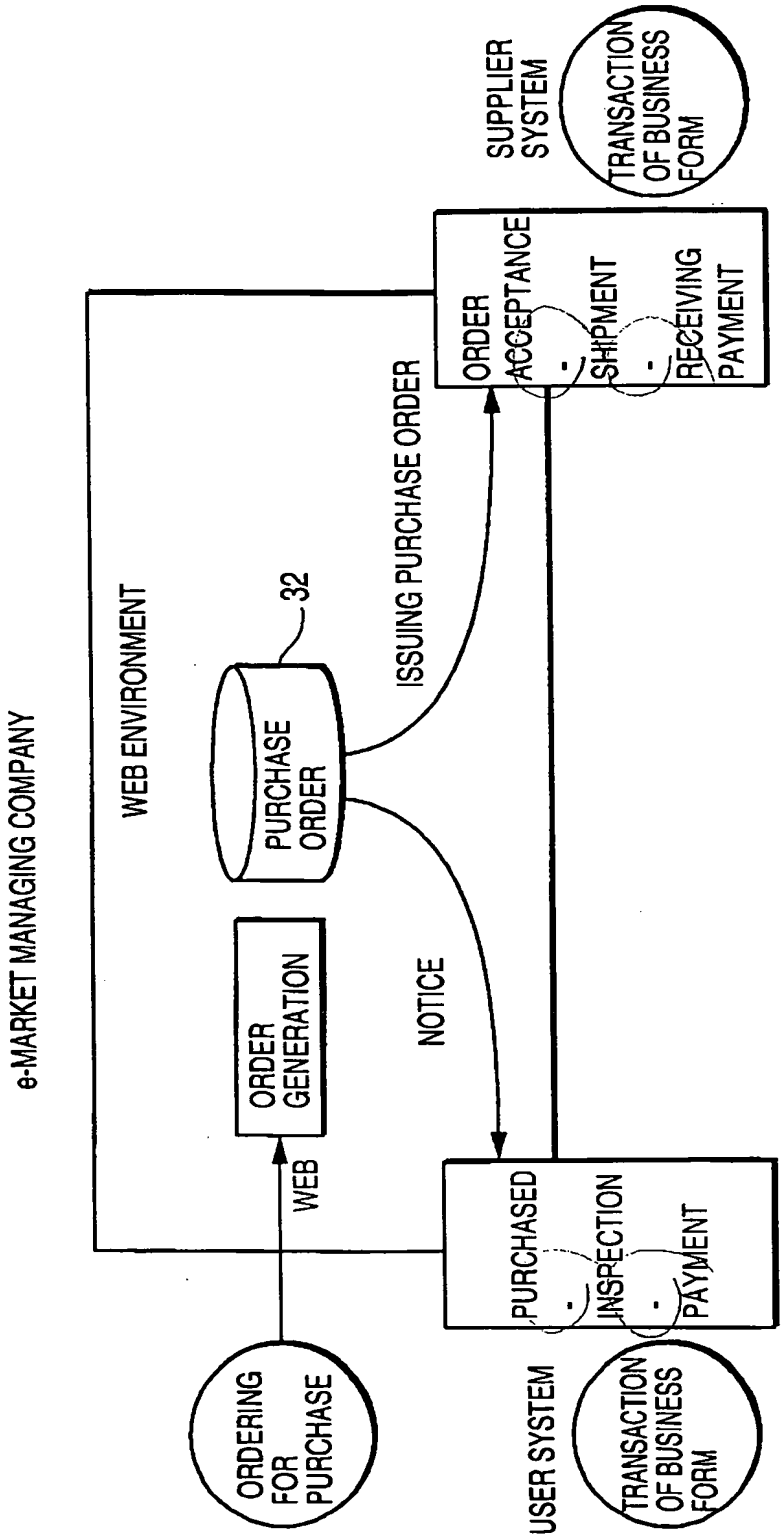

e-MARKET MANAGING COMPANY
WEB ENVIRONMENT
32
PURCHASE ORDER
ISSUING PURCHASE ORDER
ORDER ACCEPTANCE
SHIPMENT
RECEIVING PAYMENT
SUPPLIER SYSTEM
TRANSACTION OF BUSINESS FORM
ORDER GENERATION
NOTICE
WEB
PURCHASED
INSPECTION
PAYMENT
ORDERING FOR PURCHASE
USER SYSTEM
TRANSACTION OF BUSINESS FORM

FIG. 12

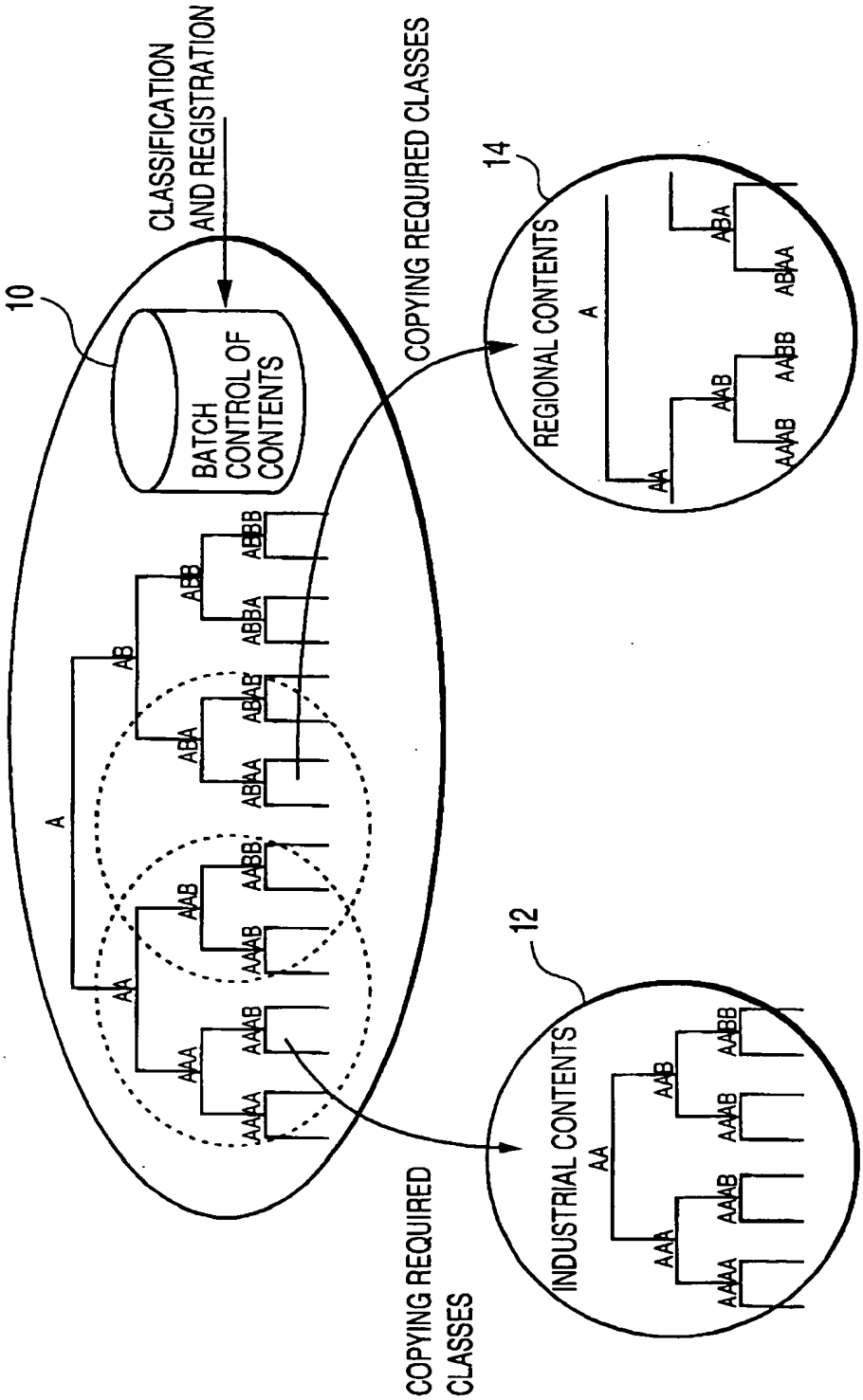

CLASSIFICATION AND REGISTRATION
10
BATCH CONTROL OF CONTENTS
COPYING REQUIRED CLASSES
14
REGIONAL CONTENTS
12
INDUSTRIAL CONTENTS
COPYING REQUIRED CLASSES

FIG. 13

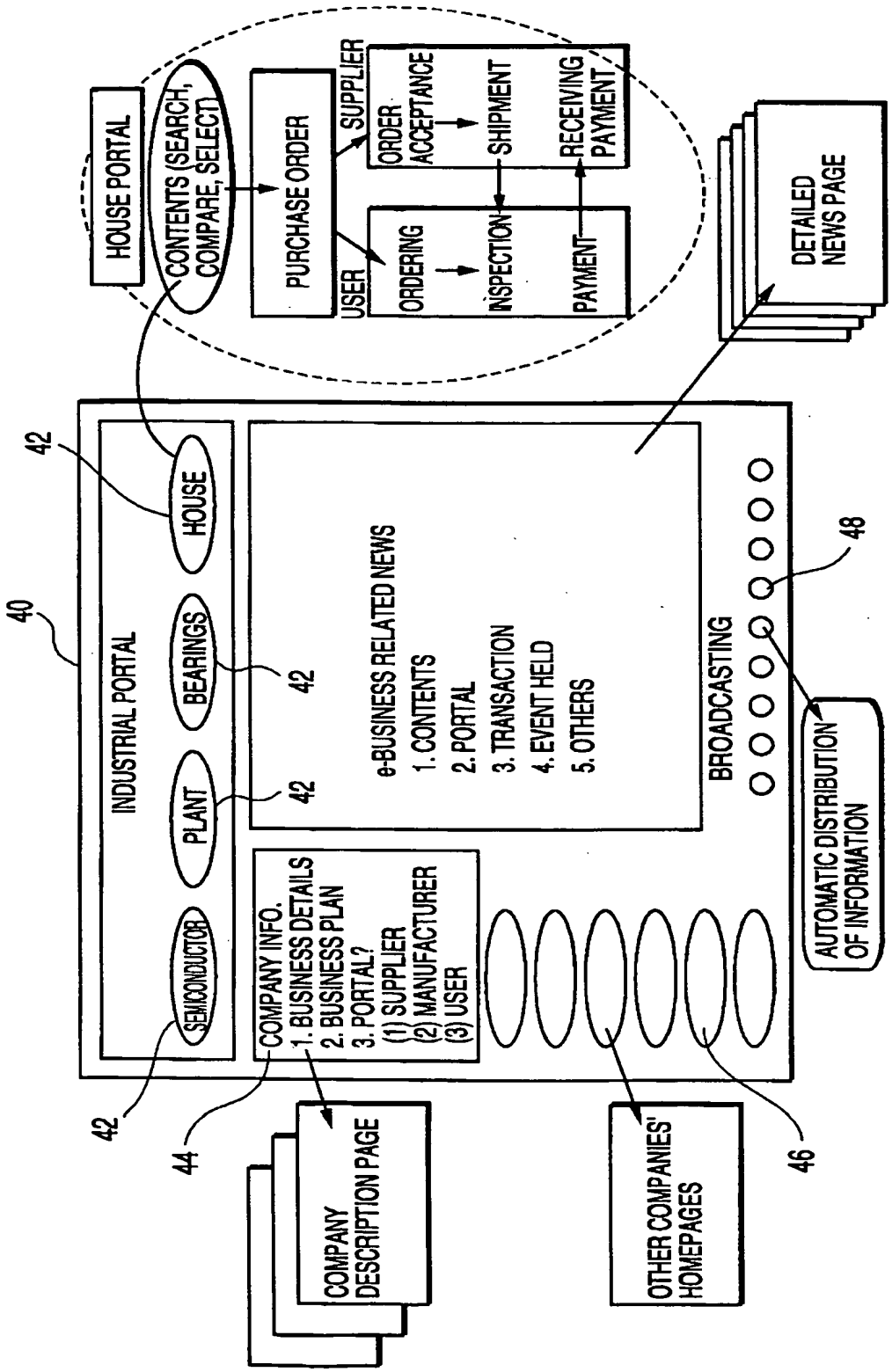

HOUSE PORTAL
CONTENTS (SEARCH, COMPARE, SELECT)
PURCHASE ORDER
SUPPLIER
ORDER ACCEPTANCE
SHIPMENT
RECEIVING PAYMENT
USER
ORDERING
INSPECTION
PAYMENT
DETAILED NEWS PAGE
42
HOUSE
BEARINGS
PLANT
SEMICONDUCTOR
INDUSTRIAL PORTAL
40
e-BUSINESS RELATED NEWS
1. CONTENTS
2. PORTAL
3. TRANSACTION
4. EVENT HELD
5. OTHERS
BROADCASTING
48
AUTOMATIC DISTRIBUTION OF INFORMATION
COMPANY INFO.
1. BUSINESS DETAILS
2. BUSINESS PLAN
3. PORTAL?
(1) SUPPLIER
(2) MANUFACTURER
(3) USER
44
COMPANY DESCRIPTION PAGE
OTHER COMPANIES' HOMEPAGES
46

FIG. 14

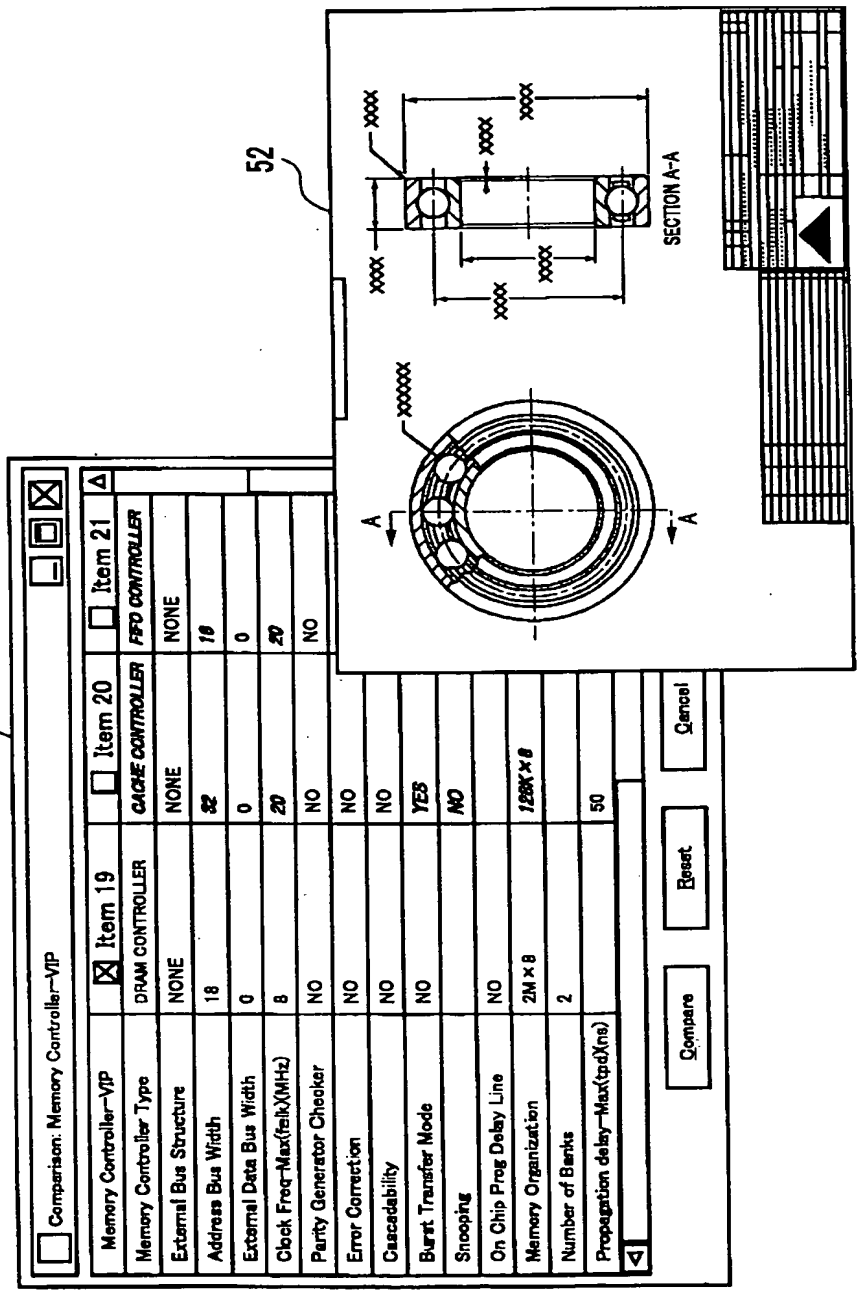

50
52
Comparison: Memory Controller-VIP
Memory Controller-VIP
Item 19
Item 20
Item 21
Memory Controller Type
DRAM CONTROLLER
CACHE CONTROLLER
FIFO CONTROLLER
External Bus Structure
NONE
NONE
NONE
Address Bus Width
18
32
16
External Data Bus Width
0
0
0
Clock Freq-Max(fclk)(MHz)
8
20
20
Parity Generator Checker
NO
NO
NO
Error Correction
NO
NO
Cascadability
NO
NO
Burst Transfer Mode
NO
YES
Snooping
NO
On Chip Prog Delay Line
NO
Memory Organization
2M x 8
128K x 8
Number of Banks
2
Propagation delay-Max(tpd)(ns)
50
Compare
Reset
Cancel
SECTION A-A
XXXX
XXXXX

FIG. 15

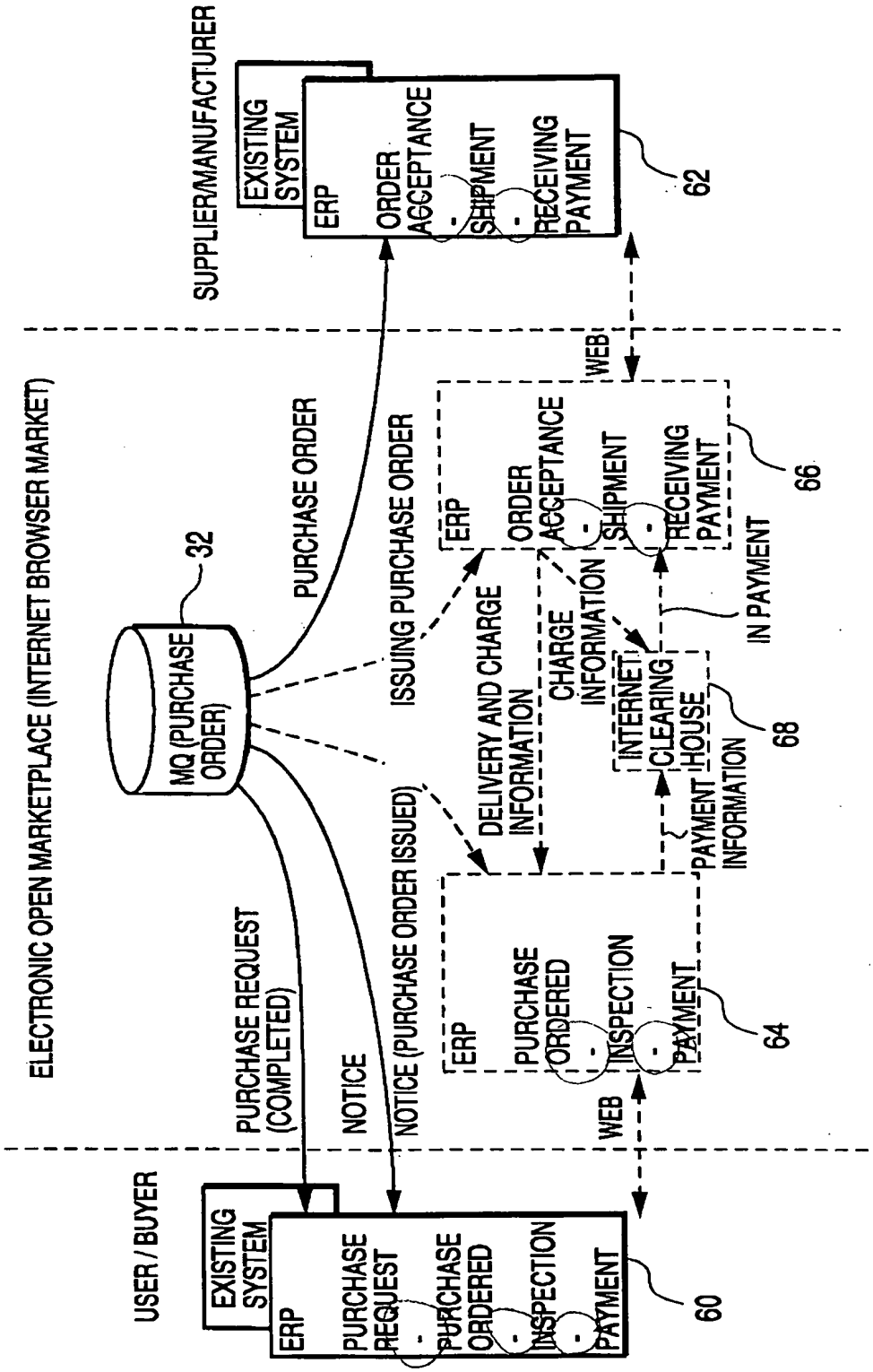
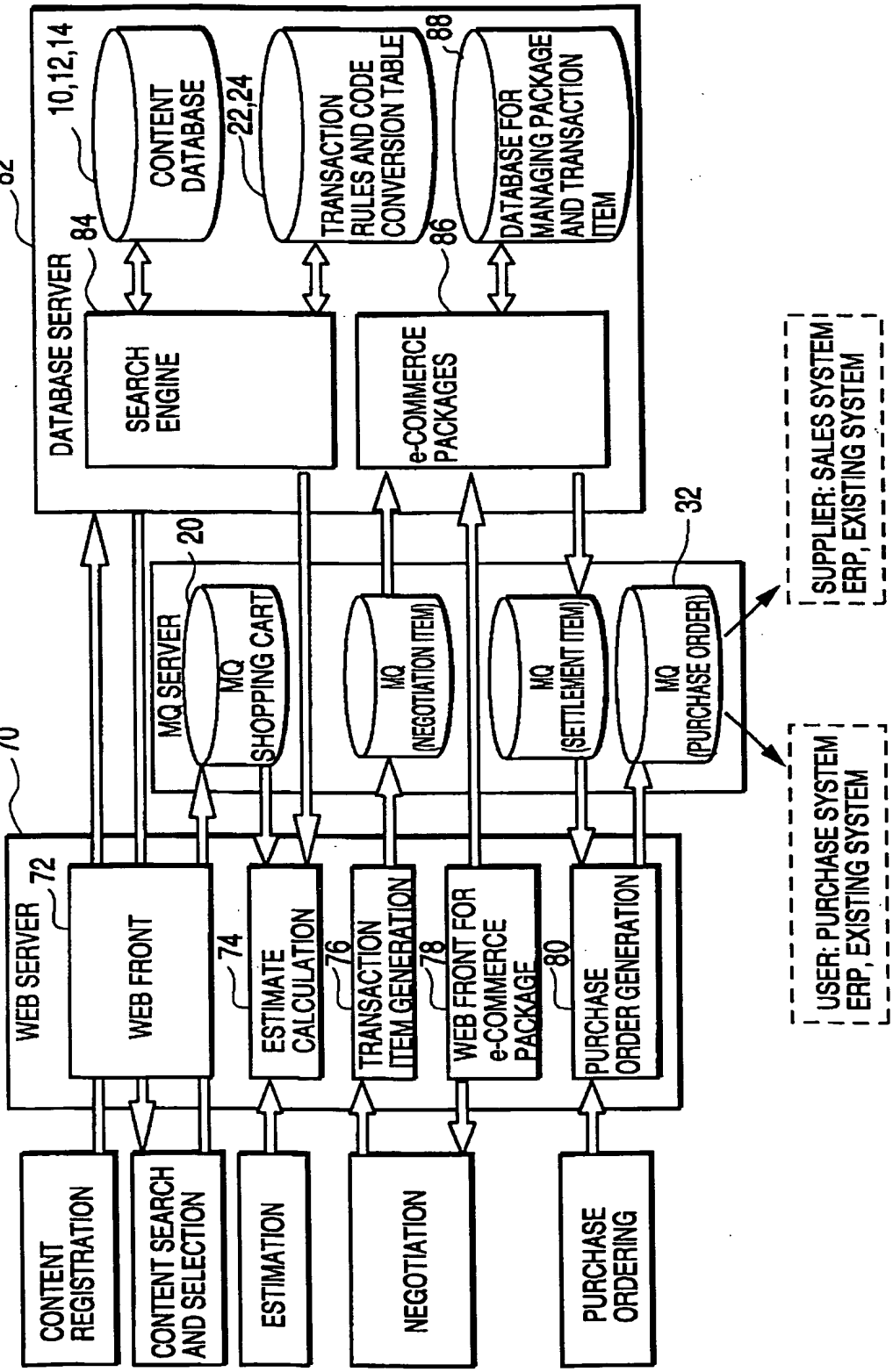

SUPPLIER/MANUFACTURER
EXISTING SYSTEM
ERP
ORDER ACCEPTANCE
SHIPMENT
RECEIVING PAYMENT
62
WEB
ELECTRONIC OPEN MARKETPLACE (INTERNET BROWSER MARKET)
MQ (PURCHASE ORDER)
32
PURCHASE ORDER
ISSUING PURCHASE ORDER
ERP
ORDER ACCEPTANCE
SHIPMENT
RECEIVING PAYMENT
66
DELIVERY AND CHARGE INFORMATION
CHARGE INFORMATION
IN PAYMENT
INTERNET CLEARING HOUSE
68
PAYMENT INFORMATION
NOTICE (PURCHASE ORDER ISSUED)
PURCHASE REQUEST (COMPLETED)
NOTICE
ERP
PURCHASE ORDERED
INSPECTION
PAYMENT
64
WEB
USER / BUYER
EXISTING SYSTEM
ERP
PURCHASE REQUEST
PURCHASE ORDERED
INSPECTION
PAYMENT
60

FIG. 16


DATABASE SERVER
82
10,12,14
CONTENT DATABASE
22,24
TRANSACTION RULES AND CODE CONVERSION TABLE
88
DATABASE FOR MANAGING PACKAGE AND TRANSACTION ITEM
84
86
SEARCH ENGINE
e-COMMERCE PACKAGES
20
32
MQ SERVER
MQ (SHOPPING CART)
MQ (NEGOTIATION ITEM)
MQ (SETTLEMENT ITEM)
MQ (PURCHASE ORDER)
SUPPLIER: SALES SYSTEM ERP, EXISTING SYSTEM
USER: PURCHASE SYSTEM ERP, EXISTING SYSTEM
70
WEB SERVER
72
WEB FRONT
74
ESTIMATE CALCULATION
76
TRANSACTION ITEM GENERATION
78
WEB FRONT FOR e-COMMERCE PACKAGE
80
PURCHASE ORDER GENERATION
CONTENT REGISTRATION
CONTENT SEARCH AND SELECTION
ESTIMATION
NEGOTIATION
PURCHASE ORDERING